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THE AMERICAN JEWISH COMMITTEE

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MIL'MAN, Yu.V.; TIEFILOV, V.I.

Paramagnetic susceptibility of alloys on the basis of chromium. Ukr.  
fiz. zhur. 9 no. 7:794-795 Jl '64. (MTR 17:10)

1. Institut metallofiziki AN UkrSSR, Kiyev.

MOISEYEV, V.F.; TREFILOV, V.I.

Spatial form of twins in metals. Fiz. met. i metalloved. 19  
no.1:129-130 Ja '65. (VMA 184.)

1. Institut metallofiziki AN UkrSSR.

ENTRIES IN 1921. New entries cannot be made after the 1st of January.

1100 1101

**TOPIC THREE: metal X-ray analysis, molecular structure, crystal structures, transformation**

ABSTRACT During investigations of phase and structural changes in metals, high speed

2.500 mg/g and chlorine monoxide at 0.001 mg/g respectively. The method points to the use of chlorine monoxide as a more effective deodorant than chlorine.

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L 20882-65  
ACCESSION NR: AT4046873

is the transformation of the angular distribution of intensity of interference lines into  
oblique dimensions. A working unit has been designed (see Fig. 2 of the Enclosure) for

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CIA-RDP86-00513R001756520003-2"

DRACHINSKY, A.S.; TREFILOV, V.I.

Conditions of metal fracture. Sbor. nauch. rab. Inst.  
metallofiz. AN URSR No.18-22-25 '64 (MIRA 17:8)

GRIDNEV, V.N.; MINAKOV, V.N.; TREFILOV, V.I.

Mechanism of the formation of austenite at high rates of  
heating. Sbor. nauch. rab. Inst. metallofiz. AN URSR no.18:  
107-114 '64. (MIRA 17:8)

MINAKOV, V.N.; TREFILOV, V.I.

Effect of plastic deformation on the temperature of the start of  
martensite transformations. Sbor. nauch. rab. Inst. metallofiz.  
AN URSR no.17:166-169 '63. (MIRA 17:3)

TREFILOV, V.I.; MIL'MAN, Yu.V.

Mechanism of the plastic deformation of bismuth and antimony.  
Sbor. nauch. rab. Inst. metallofiz. AN URSR no.17:32-44 '63.

Mechanism of the plastic deformation of bismuth and antimony.  
(MIRA 17:3)  
Ibid.:45-49

TREFILOV, V.I.; MIL'MAN, Yu.V.

Determination of the microhardness of metals at low temperatures  
under a layer of cooling liquid. Zav.lab. 30 no.4:484-485  
'64. (MIRA 17:4)

1. Institut metallofiziki AN UkrSSR.

AM4017086

## BOOK EXPLOITATION

S/

Gertsriken, S. D.; Dekhtyar, I. Ya.; Krivoglaz, M. A.; Larikov, L. N.; Ly\*skak,  
L. I.; Nosterenko, Ye. G.; Novikov, N. N.; Sosnina, Ye. I.; Slyusar, N. F.;  
Tikhonov, L. V.; Trofilov, V. I.; Chuistov, K. V.

Physical bases of the strength and ductility of metals (Fizicheskiye osnovy\*  
prochnosti i plastichnosti metallov) Moscow, Metallurgizdat, 1963. 321 p.  
illus., biblio. Errata slip inserted. 4250 copies printed. Editor of the  
publishing house: Ye. N. Berlin; Technical editor: L. V. Dobuzhinskaya;  
Bindery artist: Yu. M. Vashchenko

TOPIC TAGS: strength of metals, ductility, crystal lattice, dislocations, metal  
failure, strain hardening, solid solution, microstress, lattice defect, plastic  
strain, relaxation, polygonization, recrystallization, grain growth

PURPOSE AND COVERAGE: This collection of articles is intended for scientific  
personnel and for engineers and metals physicists; it also may be useful to stu-  
dents at metallurgical and machine-building vuzes. The results of study of  
crystal-lattice imperfections and the dislocation theory of metal failure are

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presented. Contemporary concepts of the nature and mechanism of different weakening processes in metals are expounded, as well as present-day thinking concerning the effect of impurities on the kinetics of the weakening processes. The articles in this collection are principally the original results of research performed in recent years at the Institut Metallofiziki AN USSR.

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SUB CODE: ML, AP

SUBMITTED: 23Aug63

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OTHER: 463

DATE ACQ: 17Jan64

Card 3/3

DRACHINSKIY, A.S.; MOISEYEV, V.F.; TREFILOV, V.I.

Dependence of the type of plastic deformation (slip, twinning)  
on the grain size in polycrystalline iron. Dokl. AN SSSR 154  
no.5:1078-1081 F'64. (MIRA 17:2)

1. Institut metallofiziki AN UkrSSR. Predstavлено академиком  
G.V.Kurdyumovym.

TREFILOV, V.I.; MIL'MAN, Yu.V.

Characteristics of the plastic deformation of crystals  
with covalent bonds. Dokl. AN SSSR 153 no.4:824-827 D '63.  
(MIRA 17:1)

1. Institut metallofiziki AN UkrSSR. Predstavлено академи-  
ком G.V. Kurdyumovym.

AVDEVENKOVA, L.M.; KOROL'KOV, N.V.; MAKSIMOVA, V.N.; TREFILOV,  
V.I.; ORLOVA, I.A., red.; KORKINA, A.I., tekhn. red.

[Large-capacity (permanent) memory devices for digital  
computers; some design principles] Dolgovremennye  
(postoiannye) zapominalushchie ustroistva dlja TsVM;  
nekotorye printsipy postroeniia. Moskva, VTs AN SSSR,  
1963. 53 p. (MIRA 17:1)  
(Electronic calculating machines—Memory systems)

GERTSRIKEN, S.D. [deceased]; DEKHTYAR, I.Ya.; KRIVOGLAZ, M.A.;  
LARIKOV, L.N.; LYSAK, L.I.; NESTERENKO, Ye.G.; NOVIKOV,  
N.N.; SOSNINA, Ye.I.; SLYUSAR, B.F.; TIKHONOV, L.V.;  
TREFILOV, V.I.; CHUISTOV, K.V.; BERLIN, Ye.N., red. izd.-va;  
DOBZHINSKAYA, L.V., tekhn. red.

[Physical principles of the strength and plasticity of metals]  
Fizicheskie osnovy prochnosti i plastichnosti metallov. [By]  
S.D. Gertsriken i dr. Moskva, Metallurgizdat, 1963. 321 p.  
(MIRA 16:12)

(Physical metallurgy)

DRACHINSKIY, A.S.; TREFILOV, V.I.

Changes of elastic moduli in the elastic deformation range. Sbor.  
nauch. rab. Inst. metallofiz. AN URSR no.15:179-187 '62. (MIRA 15:12)  
(Elasticity) (Deformations (Mechanics))

MIL'MAN, Yu.V.; TREFILOV, V.I.

Cold brittleness temperature of metals with a volume-centered  
cubic lattice. Sbor. nauch. rab. Inst. metallofiz. AN URSR  
no.16:16-21 '62. (MIRA 16:5)  
(Metals--Brittleness) (Crystal lattices)

GRIDNEV, V.N.; TAFALOVSKIY, V.A.; TREFILOV, V.I.

Formation of the  $\omega$ -phase in hafnium-base alloys. Sbor. anuch. rab.  
Inst. metallofiz. AN URSR no. 15:188-191 '62. (MIRA 15:12)  
(Hafnium alloys—Metallography) (Phase rule and equilibrium)

TREFILOV, V.I.

Dislocation theory of brittle failure. Sbor. nauch. rab. Inst.-  
metallofiz. AN URSR no.16:3-15 '62. (MIRA 16:5)  
(Dislocations in metals) (Metals--Brittleness)

GRIDNEV, V.N.; MESHKOV, Yu.Ya.; TREFILOV, V.I.

Some technological problems in the electric tempering of steel.  
Sbor. nauch. rab. Inst.metallofiz. AN URSR no.16:198-204 '62.  
(MIRA 16:5)  
(Steel--Heat treatment) (Tempering)

GRIDNEV, V.N.; LOTSKO, D.V.; TREFILOV, V.I; CHERENKO, N.F.

Nature of changes in the physical properties of titanium alloys in  
the 100-400° temperature range. Sbor. nauch. rab. Inst. metallofiz.  
AN URSR no.15:192-200'62. (MIRA 15:12)  
(Titanium alloys—Metallography)(Metals at high temperatures)

TREFILOV, V.N.

Toxicity of hexogen. Trudy GIGT no. 9:49-57 '62. (MIRA 17:9)

TREFILOV, V.S., dotsent (Leningrad)

Blood gases and hemodynamics in some chronic nonspecific pulmonary  
diseases. Kaz. med. zhur. no.6:85 N-D '60. (MIRA 13:12)  
(BLOOD, GASES IN) (LUNGS—DISEASES)

TREFILOV, V. S.

Feb 1948

USSR/Medicine - Influenza  
Medicine - Blood Pressure

"Condition of the Cardiovascular System during Influenza and Influenza Pneumonia,"  
P. M. Levina, V. S. Trefilov, L. B. Mel'man, Ye. B. Flegontova, Preliminary  
Therapeutic Clinic, Leningrad State ~~Preliminary~~ Med Inst, 8 pp

"Klin Medits" Vol XXVI, No 2

Discusses arterial and venal pressures, results of capillaroscopic examination, and  
electrocardiographic changes observed in cases of influenza and influenzal pneumonia.  
Deputy of Preliminary Therapeutic Clinic: Prof S. A. Kofman.

PA47T63

YERMACHENKO, Ya.N.; TREFILOV, V.V.

Device for fastening rubber inserts to the packing washers of  
LM-57 streetcar wheels. Rats. predl. na gor. elektrotransp.  
(MIRA 18:2)  
no.9:42-43 '64.

1. Depo im. Konyashina Tramvayno-trolleybusnogo upravleniya  
Leningrada.

NAKHODKIN, G.A.; TREFILOVA, G.V.; IVANOV, B.Ye.

Preparation of adhesives from settled gas producer tar. Gidroliz.  
i lesokhim.prom. 14 no.3:16-18 '61. (MIRA 14:4)

1. Izhevskiy metallurgicheskiy zavod (for Nakhodkin and Trefilova).  
2. Izhevskiy mekhanicheskiy institut (for Ivanov).  
(Adhesives) (Wood tar)

GORDON, L.V.; NOSOVA, N.I.; TREFILOVA, G.V.; FREYDMAN, V.V.

Extraction of pyrocatechol from settled gas producer wood tar  
by means of its washing and obtaining of tar oils and phenols  
from the washed tar. Sbor. trud. TSNILKHI no. 14:26-31 '61.  
(MIRA 16:4)

(Pyrocatechol)

(Phenols)

(Wood tar)

BOYARCHENKOV, M.A.; VOLODIN, V.S.; KERBNIKOV, F.I.; KOZLOV, G.D.; SURBOTINA, G.V.; TREFILOVA, I.S.

All-Union conference on magnetic elements of automatic and remote control and computer techniques. Avtom. i telem. 19 no.6:614-620  
Je '58. (MIRA 11:6)

(Automatic control—Congresses)  
(Magnetic amplifiers)

POSTOVSKIY, I.Ya.; TREFILOVA, L.P.; SHEYNKER, Yu.N.; BOGOMOLOV, S.G.

Coplanar position of phenyl radicals in biphenyl derivatives.  
Fiz. sbor. no.3:388-390 '57. (MIRA 11:8)

1. Ural'skiy politekhnicheskiy institut im. S.M. Kirova.  
(Biphenyl--Spectra) (Stereochemistry)

PRIKHOT'KO, A.F.

24(7) p 3 PHASE I BOOK EXPLOITATION 80V/1365

L'vov. Universitet

Materialy 1 Vsesoyuznogo soveshchaniya po spektroskopii. t. 1:  
 Molekulyarnaya spektroskopiya (Papers of the 10th All-Union  
 Conference on Spectroscopy. Vol. 1: Molecular Spectroscopy)  
 [L'vov] Izd-vo L'vovskogo univ-ta, 1957. 499 p. 4,000 copies  
 printed. (Series: Its: Pizychnyy sbirnyk, vyp. 3/8/)

Additional Sponsoring Agency: Akademiya nauk SSSR. Komissiya po  
 spektroskopii. Ed.: Gajer, S.L.; Tech. Ed.: Saranyuk, T.V.;  
 Editorial Board: Laristberg, G.S., Academician (Resp. Ed., Deceased),  
 Nenoront, B.S., Doctor of Physical and Mathematical Sciences,  
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 Fabrikant, V.A., Doctor of Physical and Mathematical Sciences,  
 Kornitckiy, V.D., Candidate of Technical Sciences, Rayatskiy, S.M.,  
 Candidate of Physical and Mathematical Sciences, Klimovskiy, L.K.,  
 Candidate of Physical and Mathematical Sciences, Miliyanchuk, V.S.,  
 A. Ye., Candidate of Physical and Mathematical Sciences.

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Postovskiy, I. Ya., L.V. Trefilova, Yu. N. Sheynker,  
 and S.G. Bogomolov. Coplanarity of Phenol Molecules  
 in Diphenyl Derivatives

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Yegorov, Yu. P., and Ye. A. Chernyshov. Spectra  
 of Silicorganic Compounds With an Aromatic  
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Gerasimov, V.M., I.A. Tel'tevskiy, S.V. Kraselov,  
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Kiselev, B.A. Double Monochromator With Diffraction  
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Yaroslavskiy, N.G., B.A. Zheludov, and A. Ye. Stanevich.  
 Methods and Apparatus for Registration of Long-wave  
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Card 25/30

L.F. TREFILOVA, ~~Yu.N.~~

B-4

USSR/Physical Chemistry - Molecule, Chemical Bond.

Abs Jour : Referat Zhur - Khimiya, No 1, 1958, 124

Author : I.Ya. Postovskiy, L.F. Trefilova, Yu.N. Sheynker, S.G. Bogomolov.

Inst : Academy of Sciences of USSR

Title : Non-Coplanarity of Phenyl Nuclei in Diphenyl Derivatives.

Orig Pub : Dokl. AN SSSR, 1957, 113, No 2, 347-350

Abstract : The infrared spectra of diphenyl-n-anisylketone (I), diphenyl-n-aminophenylketone (II), n-methoxydiphenylphenylketone (III), n-aminodiphenylphenylketone (IV) and corresponding benzophenones in crystalline state and in dioxane solution were studied in the region from 2 to 14  $\mu$ . In view of the frequency change of the val. osc. of the C=O link, it is concluded that the influence of the groups  $\text{OCH}_3$  and  $\text{NH}_2$  across the diphenyl system in III and IV is

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USSR/Physical Chemistry - Molecule, Chemical Bond.

B-4

Abs Jour : Ref Zhur - Khimiya, No 1, 1958, 124

weaker than the influence of these groups in I and II. The polarographic measurements also indicate the decrease of the coupling across the diphenyl system; the half-wave potential in III and IV shifts to the side of positive magnitude. In the author's opinion, the spectral and polarographic data indicate the non-coplanarity of diphenyl in studied compounds in solutions, as well as in crystalline state.

Card 2/2

TRIZILOVA, L.F.; POSTOVSKIY, I.Ya.

Some derivatives of diphenyl and their tuberculostatic activity.  
Dokl. AN SSSR 114 no.1:116-119 My '57. (MIR 10:7)

1. Ural'skiy politekhnicheskiy institut im. S.M. Kirova. Pred-  
stavлено академиком I.N. Nazarovym.  
(Biphenyl) (Tuberculosis--Research)  
(Chemistry, Medical and pharmaceutical)

SUBBOTINA, G.V.; TREFILOVA, I.S.

List of foreign literature on magnetic elements of automatic control, remote control, and computer engineering for 1960.  
Avtom. i telem. 23 no.5:688-710 My '62. (MIRA 15:5)

(Bibliography--Automatic control)

(Bibliography--Remote control)

(Bibliography--Electronic calculating machines)

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77834  
SOV/103-21-2-14/14

AUTHORS: Subbotina, G. V. and Trefilova, I. S.

TITLE: Bibliography. A List of Literature for 1958 on the Magnetic Elements of Automation, Telemechanics, and Computing Technology. (Continued from Avtomatika i Telemekhanika, Nr 1, 1960. Our Abstract 77491, SOV/103-21-1-22/22

PERIODICAL: Avtomatika i telemekhanika, 1960, Vol 21, Nr 2, pp 271-278 (USSR)

ABSTRACT: This list contains 5 topical groupings of articles that have appeared in various foreign publications in 1958. The title of each article and the name of publication is given in its original language with a Russian translation added. A breakdown of the groupings is as follows: Magnetic amplifiers: Theories, diagrams, computation: (a) Single track magnetic amplifiers; there are 9 U.S., 1 U.K., 1 German, 1 Rumanian, and 2 French articles listed. (b) Push-pull magnetic

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Bibliography. A List of Literature  
for 1958 on the Magnetic Elements of  
Automation, Telemechanics, and Computing  
Technology.

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amplifiers; there are 7 U.S. and 1 U.K. articles listed. (c) Multistage amplifiers; there are 4 U.S. articles listed. (d) Multiphase amplifiers; there are 1 U.K. and 2 U.S. articles listed. (e) Amplifiers of alternating current and high-frequency; there are 6 U.S. articles listed. (6) Voltage magnetic amplifiers, Modulators, Sondes (magnetometers): There are 9 U.S., 1 German, and 1 U.K. articles listed. (7) Magnetic elements of discrete action: (a) Books and dissertations. (b) Review and adaptation of discrete elements in control and computation systems; there are 42 U.S., 4 U.K., 3 French, and 3 German articles listed. (c) Elements as magnetic amplifiers with a feedback; There are 5 U.S., 1 Japanese, and 2 U.K. articles listed. (d) Hysteresis elements; There are 2 U.K. and 3 U.S. articles listed. (e) Ferro-resonance elements; there is 1 U.S. article listed. (f) Magnetic-transistor elements; there is 1 U.S. article listed. (8) Magnetic generators and frequency changers; there are 1 Roumanian, 1 German, and 5 U.S. articles listed. (9) Magnetic measurements and methods of experimenting with magnetic elements; there are 15 U.S., 1 Polish, 3 U.K. and 4 German articles listed.

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PHASE I BOOK EXPLOITATION

SOV/2338

Magnitnyye elementy avtomatiki, telemekhaniki i vychislitel'noy tekhniki;  
annotirovannyj ukazatel' literatury za 1957 god (Magnetic Components in  
Automatic Control, Telemechanics, and Computers; Annotated Index of Literature  
for 1957) no. 1. Moscow, Izd-vo "Sovetskoye radio," 1959. 69 p. Nr 1. of  
copies printed not given.

Compilers: G.V. Subbotina, Candidate of Technical Sciences, and I.S. Trefilova,  
Eds.: M.A. Rozenblat, Doctor of Technical Sciences, Professor, and K.I. Kuchumova;  
Tech. Ed.: B.V. Smurov.

PURPOSE: This index is intended for engineering and technical personnel and others  
interested in the theory, development, and application of various magnetic compo-  
nents.

COVERAGE: According to its authors, the index is the first attempt at publishing an  
annotated bibliography on magnetic amplifiers and other magnetic components used  
in automatic and remote control systems and in computers. The index includes a  
list of basic Soviet and non-Soviet works published in 1957 and contains mono-  
graphs, textbooks, collections of articles, works of institutes, and booklets,

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## Magnetic Components in Automatic Control (Cont.)

SOV/2328

as well as Soviet dissertations, articles in periodicals, and Soviet and some non-Soviet patents, announcements concerning which appeared in 1957. The 383 works listed in the index are divided into nine basic sections according to subject, with further subdivisions in more detail. The numerical sequence of sources follows the alphabetic sequence of authors in each sub-chapter, the Soviet authors appearing first with the non-Soviet following. No personalities are mentioned.

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## Magnetic Components in Automatic Control (Cont.)

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JP/gmp  
10-21-59

SUBBOTINA, G.V., kand.tekhn.nauk; TREFILOVA, I.S., kand.tekhn.nauk;  
ROZEMBLAT, M.A., prof., doktor tekhn.nauk, red.; KUCHUMOVA,  
K.I., red.; SMUROV, B.V., tekhn.red.

[Magnetic elements in automatic control, telemechanics, and  
computers; annotated list of literature for the year 1957]  
Magnitnye elementy avtomatiki, telemekhaniki i vychislitel'noi  
tekhniki; annotirovannyi ukazatel' literatury za 1957 god.  
Moskva, Izd-vo "Sovetskoe radio." No.1, 1959. 68 p.  
(MIRA 12:9)

(Electric engineering)

SUBBOTINA, G.V.; TREFILOVA, I.S.

Bibliography on magnetic elements of automatic and remote control  
and computer technology for 1959. Avtom. i telem. 21 no.10:1436-  
1450 0 '60. (MIRA 13:10)

(Bibliography--Automatic control)

(Bibliography--Electronic calculating machines)

SUBBOTINA, G.V.; TREFILOVA, I.S.

List of foreign literature using magnetic elements of automatic control, remote control, and computer engineering for 1959. Avtom. i telem. 22 no.3:413-423 Mr '61. (MIRA 14:9)  
(Bibliography--Automatic control) (Bibliography--Remote control)  
(Bibliography--Electronic calculating machines)

TREFILOVA, L.F., Doc Chem Sci -- (diss) "On the chemistry  
of biphenyl. Concerning the spatial ~~construction~~<sup>structure</sup> of certain  
ketones and aldehydes of biphenyl. Synthesis of certain derivatives  
of ~~examination~~ 4-aminobiphenyl and their tuberculostatic properties."  
Sverdlovsk, 1958, 14 pp with graphs (Min of  
Higher Education USSR. Ural Polytechnic Inst im A.S.M.  
Kirov) 100 copies (KL, 29-58, 129)

USSR/Chemistry - Photochemistry

Card 1/1 Pub. 151 - 34/36

Authors : Vladimirtsev, I. F.; Postovskiy, I. Ya.; and Trefilova, L. F.

Title : Steric hindrances and properties of certain aryl amino naphthoquinones

Periodical : Zhur. ob. khim. 24/1, 181-187, Jan 1954

Abstract : The attitude of N-ethylated and N-acetylated derivatives of 2-anilino-3-halogenonaphthoquinone-1,4 was investigated when exposed to light. It was found that ethylated and acetylated products when exposed to sun light separate the ethyl or acetyl groups and convert into non-substituted products. Increased reactivity of the halide atom in position 3 was found to be another prominent characteristic of ethylated and acetylated compounds. The photochemical separation of groups in the nitrogen atom and the increased reactivity of halide atoms in ethylated and acetylated products is explained by the presence of steric hindrances in their molecules. The origin of the steric hindrances is elucidated. Six references: 4-USSR; 1-German and 1-USA (1884-1952). Table.

Institution : The S. M. Kirov Ural Polytechnicum

Submitted : July 11, 1953

TREFILOVA, L.F.

AUTHOR

POSTOVSKIY I.YA., TREFILOVA L.F., SHEYNKER YU.N.,  
BOGOMOLOV S.G.EXCERPT  
20-2-29/67

TITLE

On Non Coplanar Nature of Phenyl Nuclei In Diphenyl Derivatives.  
(O nekoplanarnosti fenilnykh yader v proizvochikh difenila -Russian)  
Doklady Akademii Nauk SSSR, 1957, Vol 113, Nr 2, pp 347-350 (U.S.S.R.)

PERIODICAL

Received 6/1957

Reviewed 7/1957

ABSTRACT

It was ascertained that in the crystalline diphenyl molecule the phenyl nuclei lie in one and the same plane despite a partial superposition of the hydrogen atmospheres (which are in ortho-position). The coplanarity of this compound is obviously caused by special conditions of the molecule package in the crystal, on which occasion the energy of a slight sphere compression of the hydrogen atoms is compensated by the convenient plane position. At the same time it is known that in the liquid and gaseous phase the diphenyl nuclei are not coplanar. This is also true for a number of n- and n'-diphenyl-substitutes in solutions in the case of lacking substituents in O-positions. So far, however, specifications the structure of such derivatives in crystalline condition are lacking. The authors spectroscopically investigated crystals of the diphenyl ketones within the infra-red domain. Structure formulas for the substances I.-IV. are given. In the I. and III.: The electron-giving influence of the methoxyl and the amino groups on the ketone group is transmitted on diphenyl-n-anisyl-ketone and diphenyl-n-aminophenyl-ketone by phenyl

Card 1/3

On Non Coplanar Nature of Phenyl Nuclei In Diphenyl 20-2-29/67  
Derivatives. ~~EX-29/67~~

cycles, whereas in the II. and IV.: This influence is transmitted on n-methoxydiphenyl-ketone and n-aminodiphenyl-phenylketone by the diphenyl system. The assumption had to be examined that in the case of a noncoplanarity of the phenyl nuclei in diphenyl the mutual influence of the methoxy-and amino-groups with the carbonyl group in the compounds II. and IV. will be smaller in consequence of the destruction of the conjugation than in the compounds I. and III. As known, the frequency of the valence fluctuation of the carbonyl group in the direction of long waves becomes more dislocated the further the  $\pi$ -electron interaction of the carbonyl group with other electron-giving groups of the molecule increases. Accordingly the oscillation frequency of the carbonyl group in the compound I will have to be smaller than in the compound II. and the oscillation frequency in III. smaller than in IV. Also polarographical determinations in a dioxane solution (as far as soluble) were carried out. Furthermore the corresponding benzophones were investigated. As evident from schedule 1 the influence of the electron-giving group  $\text{OCH}_3$  becomes manifest in the lowering of the characteristic oscillation frequency of the C=O-group. The  $\text{NH}_2$ -group has a similar effect. From the results of the infrared spectra it can be concluded that the reciprocal influence of the groups in the ketones I and II both in solutions and in crystalline condition is less distinguished by the diphenyl system than in the

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On Non Coplanar Nature of Phenyl Nuclei In Diphenyl  
Derivatives.

20-2-29/67

corresponding phenyl ketones. The results of the polarographical reduction entirely harmonize with this conclusion. All particulars here given about the complicated transmission of interaction in the ketones II and IV can serve as an indication concerning the noncoplanarity of the diphenyl in these compounds as well as in the crystalline condition.

(With 2 illustrations, 2 schedules, 14 citations from publications).

ASSOCIATION Uralic Polytechnic Institute "S.M.Kirova"  
PRESENTED BY NAZAROV I.I., Member of the Academy  
SUBMITTED 25.5.1956  
AVAILABLE Library of Congress  
Card 3/3

TREFILOVA, L.F.

20-1-32/14

AUTHOR: TREFILOVA, L.F., POSTOVSKIY, I.Ya.  
TITLE: Some Derivatives of Diphenyl and their Tuberculostatic Activity.  
(Nekotoryye proizvodnyye difenila i ikh tuberkulostaticheskaya  
aktivnost', Russian)  
PERIODICAL: Doklady Akademii Nauk SSSR, 1957, Vol 114, Nr 1, pp 116-119  
(U.S.S.R.)

ABSTRACT: It is known that anilin possesses tuberculostatic capacity (in vitro) in the concentration  $2 \cdot 10^{-4}$ . The derivatives of aromatic amines (of tuberculostatic compounds) comprise also the ascometines. Experimental results: Ascometines, obtained from 4-diphenyl aldehyde and aniline (33) exercise no positive influence on the growth of tubercles, but ascometine (arivate) obtained from 4-aminodiphenyl and benzaldehyde has great tuberculostatic activity ( $0,2 \cdot 10^2$ ). Also the compounds 34, 35, 36, 37 remained inactive. This tends to show that in the case of antitubercular activity the main part is played by the 4-aminodiphenyl and not by the

Card 1/2

20-1-32/64

Some Derivatives of Diphenyl and their Tuberculostatic Action.  
remainder of the diphenyl. (With 2 Tables and several References).

ASSOCIATION: Not given  
PRESENTED BY:  
SUBMITTED:  
AVAILABLE: Library of Congress

Card 2/2

ca

### PROCESSES AND PROCEDURES

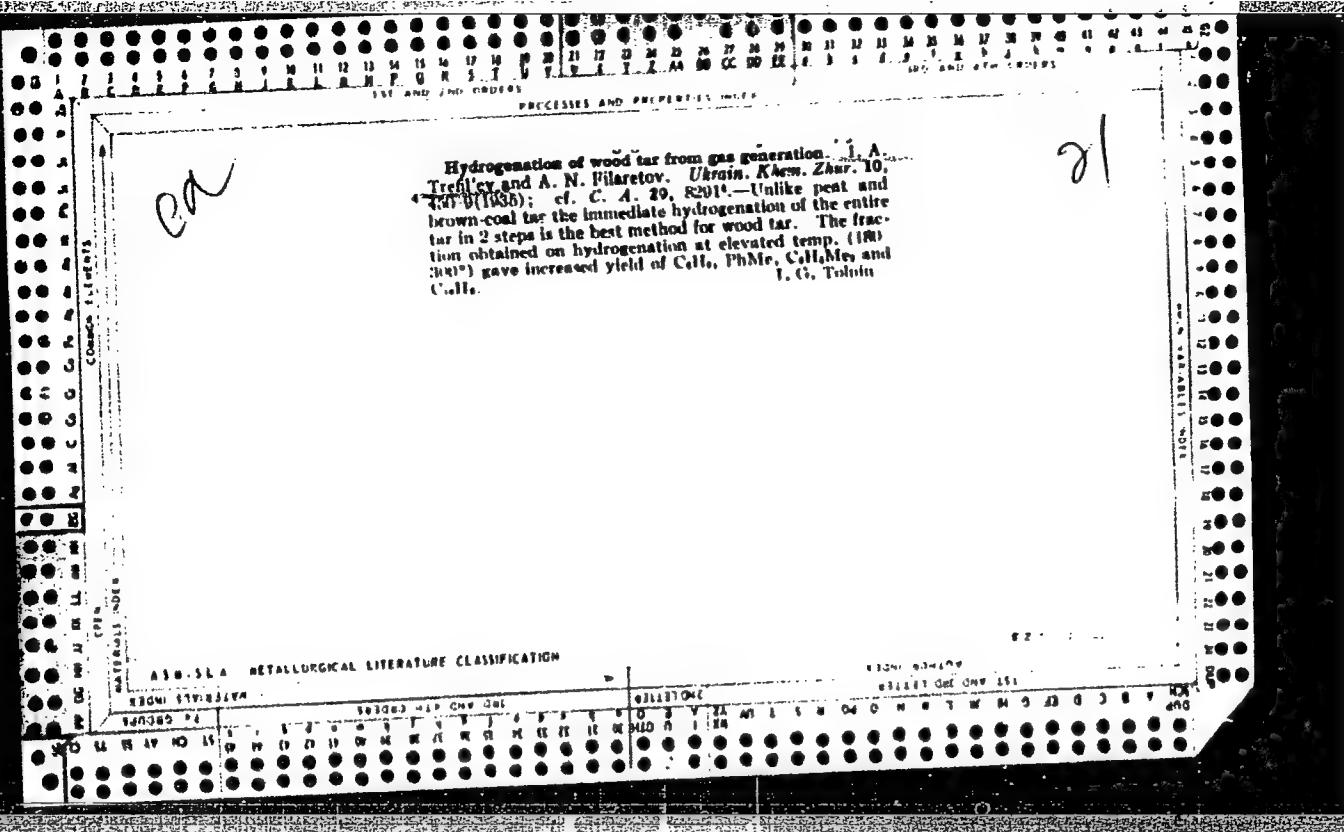
10

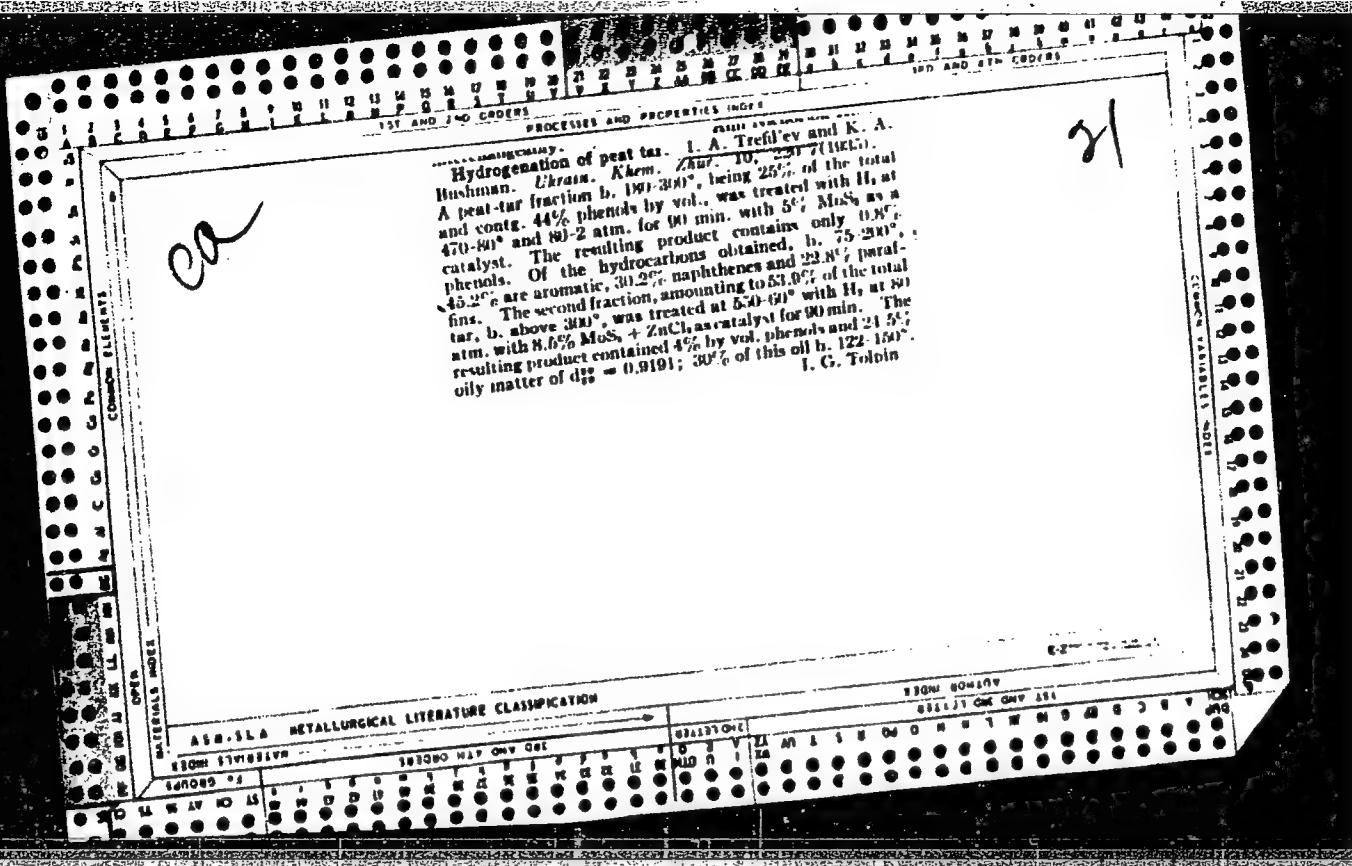
The action of bromine on  $\alpha$ -diketones dissolved in hydrobromic acid. I. A. TREFIL'EV AND E. A. GORODNIK. *J. Russ. Phys. Chem. Soc.* 62, 643-652; *Uchranzii Khim. Znach.* 3, Sci. Pt. 38-40 (1930).—The action of  $\text{Br}_2$  on  $(\text{CH}_3\text{CO})_2\text{C}$  (I) is here investigated. To 4-8 drops of I in a test tube maintained at  $-15^\circ$  are added 2 cc. of  $\text{HBr}$  (d. 1.79), cooled to  $-15^\circ$  and then 8-7 drops of  $\text{Br}_2$ ; the resulting orange crystals begin in a few mins. to disintegrate with browning and a profuse liberation of  $\text{HBr}$  gas, which, on removing the tube from the freezing mixt., becomes intensified, the product beginning to boil and becoming colorless; a few more drops of  $\text{Br}_2$  are added, the solidifying mass is placed in a  $\text{H}_2\text{SO}_4$  desiccator, later the crystals are transferred to a drying plate and into a  $\text{NaOH}$  desiccator, white needles, stable in the air and not decompl. by  $\text{H}_2\text{O}$ , m. 180°, analyzing for  $\text{C}_6\text{H}_5\text{OBr}_2$ . The obtained analysis of 14.51% C is closer to the 14.61% C of dimethylpentabromofuran,  $\text{C}_6\text{H}_5\text{OBr}_5$  (III) than to the 14.18% C of the penta-Br deriv. product of I, which leads to the presumption that I in the process of bromination is cyclized to a furan with splitting off of  $\text{Br}_2$ . To elucidate this question,  $\alpha,\alpha'$ -dimethylfuran (III) was brominated off of 1 mol of  $\text{HBr}$  by the method described above, giving a product m. 180° and analyzing for  $\text{C}_6\text{H}_5\text{OBr}_5$ . III was also brominated without  $\text{HBr}$  by exposing it to the vapors of  $\text{Br}_2$  in  $180^\circ$ , identical with the 2 previous bromides. The identity of the products of bromination of I and III indicates the metathesis and at the same time the products of bromination of furan, which takes place immediately on addn. of  $\text{HBr}$ , for the cyclization of I to furan causes a sudden ppts. of crystals, which may be taken as belonging to the class of oxonium derivs. This is indicated by their instability manifesting itself in rapid brown discoloration and the following complete decompl., as well as by the similarity of prepn. diacetylsuccinyl ester in the presence of III (Trefil'ev and Raamov, *C. A.* 23, 4448) and will be continued.

CHAN HUANG

APPROVED FOR RELEASE: 03/20/2001

CIA-RDP86-00513R001756520003-2"





Thermal calculations for determining the reactivity of carbon monoxide. I. A  
 THERM. AND S. A. KOSTRO. *Gorniâ Zâhr.* 13, No. 10/11, 11-17 (1930); *Chem. Zentralbl.*  
 1931, 1, 2320.—The properties of org. compds. depend not so much upon the total heat  
 tone as upon the additional heat energy which the authors designate by the term heat  
 "thermal difference" and called, according to the formula: (heat of combustion—sum  
 of the heat effects of the components)  $\times 100/\text{sum}$  of the heat effects of combustion—sum  
 For  $\text{C}_2\text{H}_6$  it amounts to  $-7.07\%$  ( $-28.18 \text{ Cal.}$ ); for  $\text{C}_2\text{H}_4$ ,  $+4.72\%$  ( $+16.00 \text{ Cal.}$ ); and  
 for  $\text{C}_2\text{H}_2$ ,  $+19.32\%$  ( $+80.58 \text{ Cal.}$ ). The "thermal difference" calcd. in this way for  
 $\text{CO}$  is  $+19.60\%$ , almost the same as for  $\text{C}_2\text{H}_2$ . Therefore,  $\text{CO}$  must show a re-  
 activity similar to that of  $\text{C}_2\text{H}_2$ . By numerous reactions such as  $2\text{CO} \rightarrow \text{C} + \text{CO}_2$ ,  
 the reaction between  $\text{CO}$  and  $\text{H}_2$ , etc., it is shown that this analogy actually exists. By  
 analysis of the gases from the distn. of hard coal it was established that with increasing  
 temp. of distn. the  $\text{CO}$  content of the gases decreased. Cellulose was heated with  $\text{C}_2\text{H}_2$  at  
 30 atm. pressure in a hydrogenizing bomb. The pressure decreased that with increasing  
 which indicated the decrease of  $\text{CO}_2$  as well as of combined  $\text{CO}$ . After the expt. the  
 cellulose was extensively oxidized. M. G. MOORE

APPROVED FOR RELEASE: 03/20/2001

CIA-RDP86-00513R001756520003-2"

CA

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Organic compounds of the furan series. I. A. Tregilyev and B. V. Litinov. *J. Gen. Chem. (U. S. S. R.)* 11, 183-9 (1941); cf. *C. A.* 34, 4782.  $\text{AcCH}_2\text{CH}_2\text{C}_6\text{H}_5$  (I) reacts at relatively low temp. with concd.  $\text{MBr}$  with the formation of 2,3-dimethyl-3,4-diacetyl furan (II), m. 63-4°. When to I in concd.  $\text{HBr}$  is added  $\text{Br}$  in  $\text{HBr}$  crystals are obtained the analysis of which corresponds rather closely to  $\text{C}_{11}\text{H}_{12}\text{Br}_2\text{O}_4$ , thus indicating that 4  $\text{Br}$  have been added. The same results are obtained when II in  $\text{CHCl}_3$  is treated with  $\text{Br}$  in  $\text{CHCl}_3$ . The addn. product decomps. with loss of  $\text{Br}$ . When I is used instead of  $\text{Br}$ , the addn. product is  $\text{C}_{11}\text{H}_{12}\text{O}_4$ . Treatment of di- $\text{Et}$   $\alpha,\beta$ -dibenzoylsuccinate (III) with concd.  $\text{HBr}$  leads not to the expected di- $\text{Et}$  2,5-diphenyl-3,4-furan dicarboxylate but to a compd., m. 87°, the analysis of which indicates that it is the mono- $\text{H}$  ester of 2,5-diphenyl-3,4-furan dicarboxylic acid. When III is treated with  $\text{Br}$  vapors, a di- $\text{Br}$  deriv. of III is formed. 2-Methylfuran on reaction with concd.  $\text{HBr}$  and  $\text{Br}$  at room temp. and at -10° gives no cryst. reaction product but a black polymerization product. Other derivs. of furan contg. a substituent in the 2-position react also with concd.  $\text{HBr}$  and  $\text{Br}$  with the formation of polymers. The influence of the various substituents on the reaction mechanism is discussed. Gertrude Berend

## ASA-51A METALLURGICAL LITERATURE CLASSIFICATION

EXTRACTED SUBJECT

EXTRACTED SUBJECT

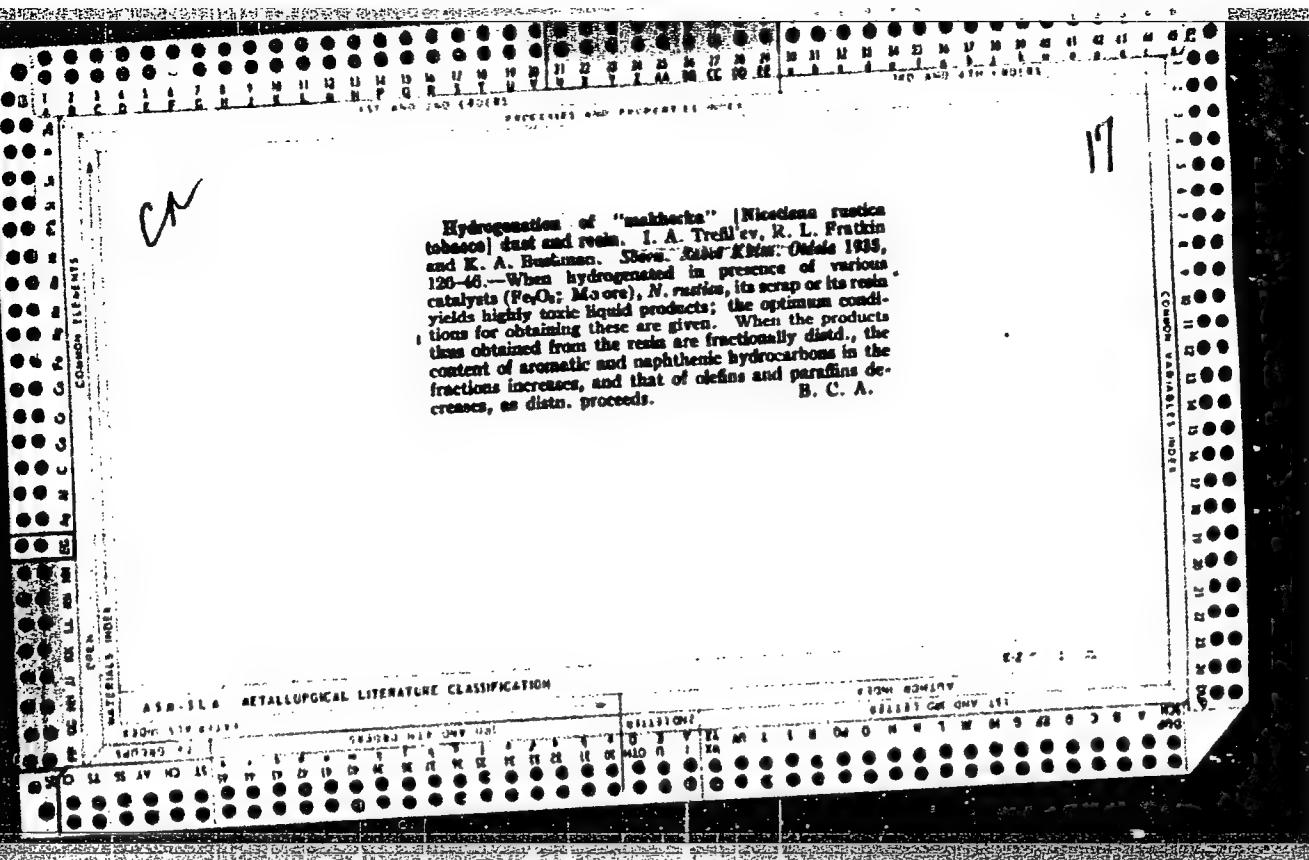
SUBJECT KEY ONV 285

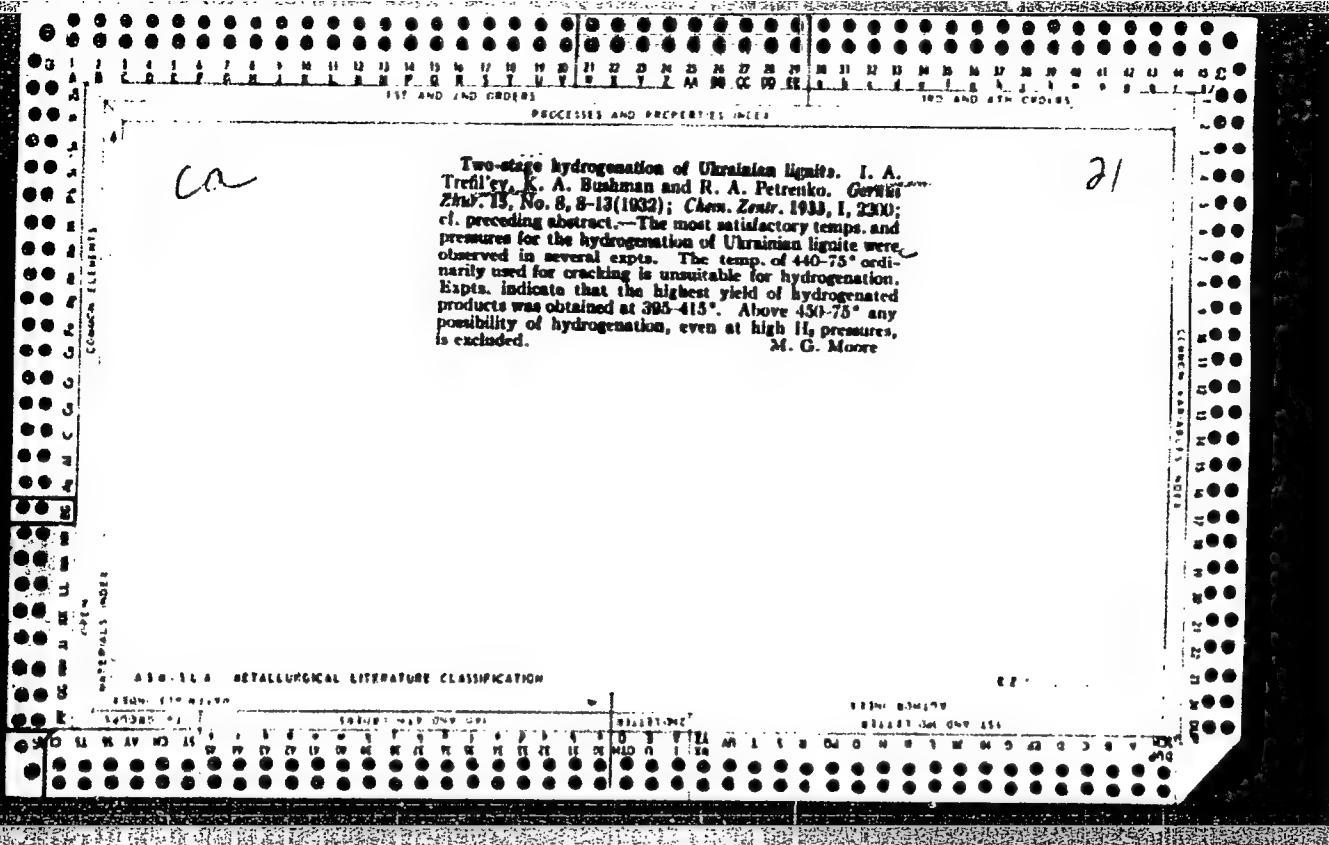
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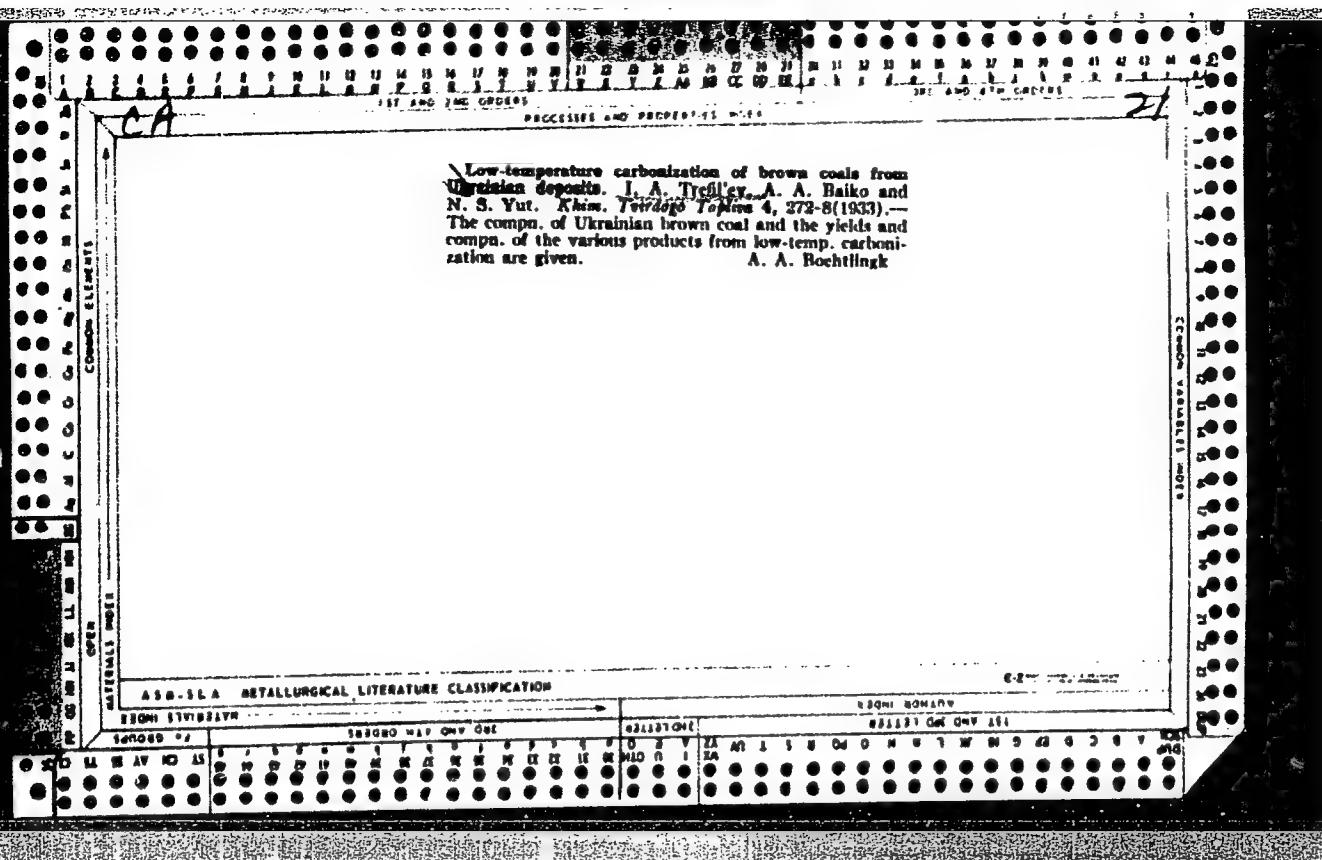
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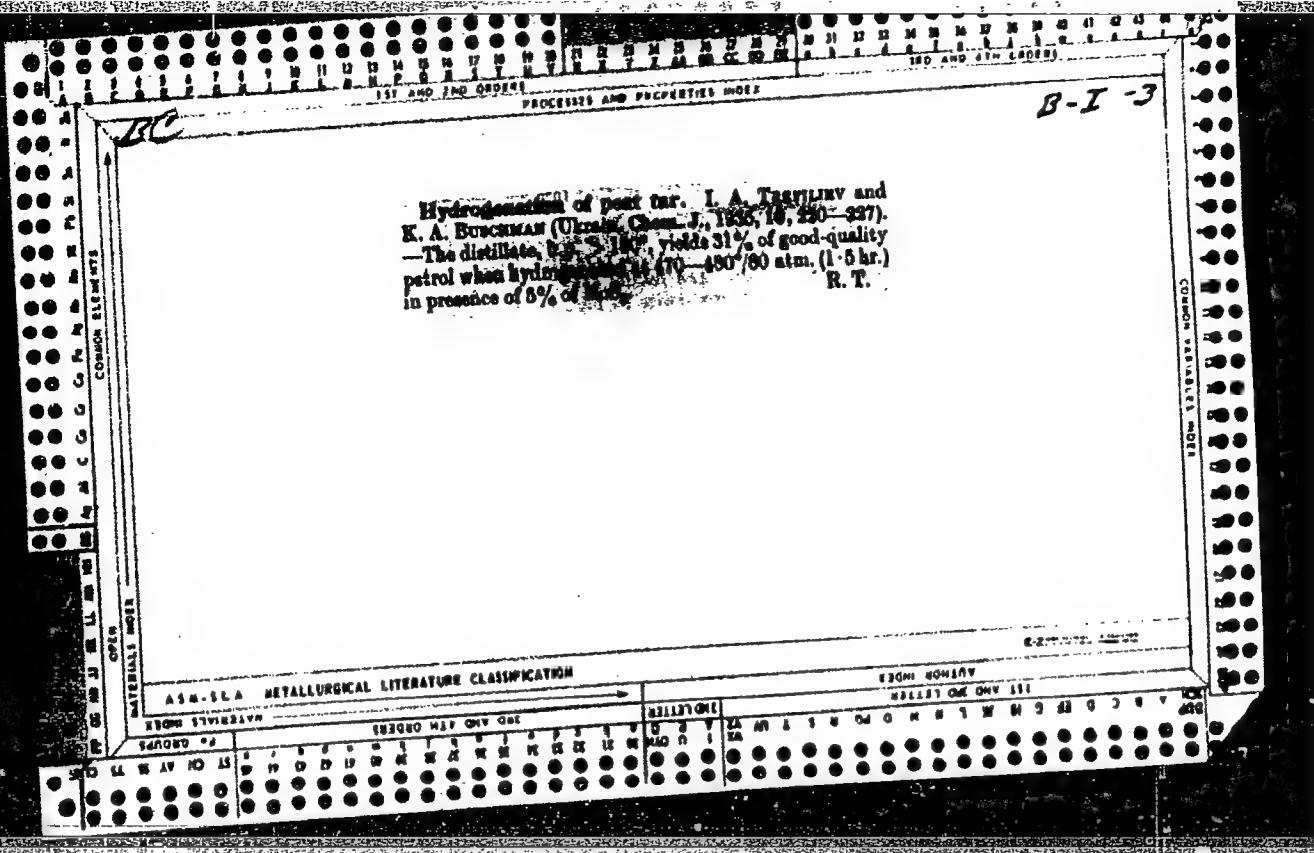
SUBJECT KEY ONV 285

EXTRACTED SUBJECT









Bt

## PIGGED AND PIGGETED HOGS

B-I-2

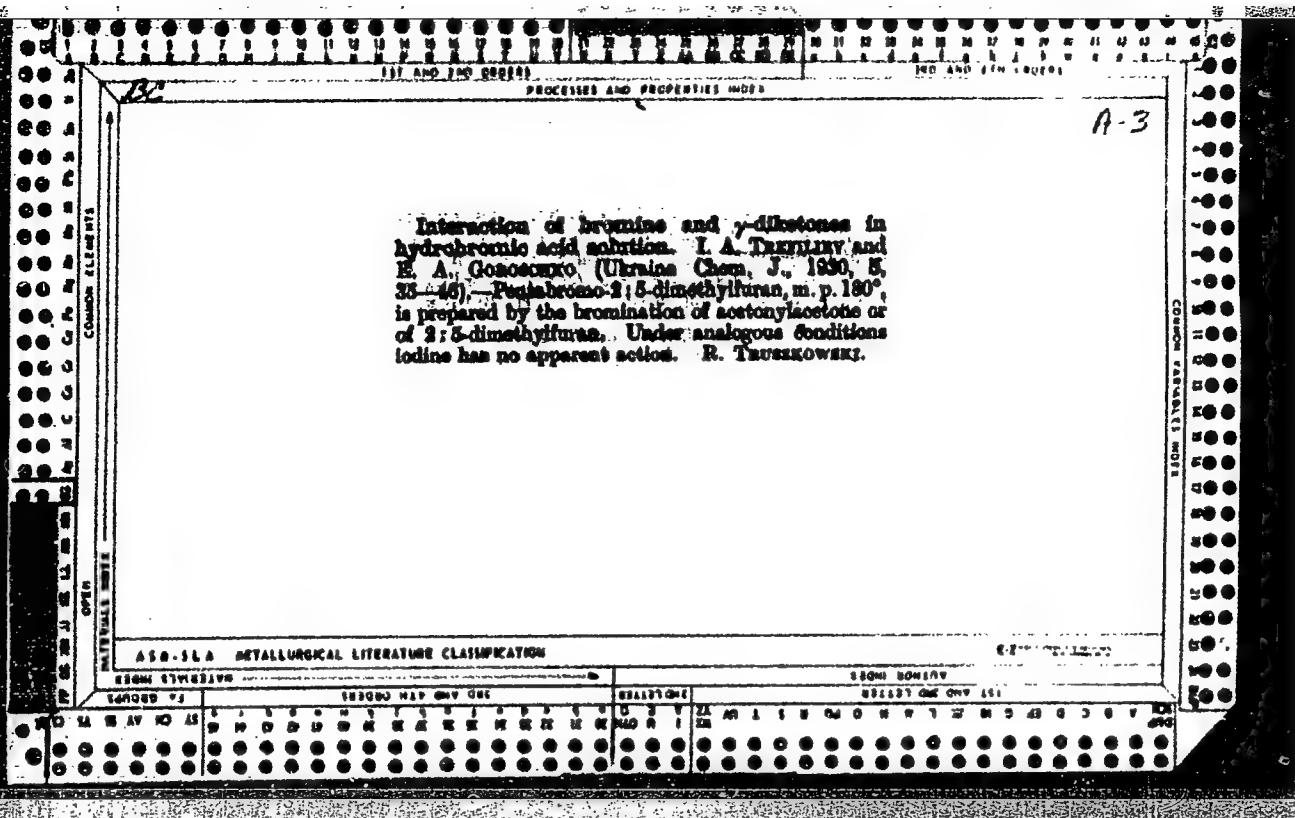
Hydrogenation of wood tar. I. A. TSYRIL'KOV (Ukrain. Chem. J., 1935, 10, 400-409).-31% of liquid hydrocarbons, b.p. < 180°, are obtained by hydrogenation ( $\text{MoS}_2\text{-ZnO}$  catalyst; 400-470°/500 atm.; 45 min.) of wood tar in two stages. The yields of  $\text{PhMe}$  are 2.5% and of  $\text{C}_{12}\text{H}_{10}$  1.08% of the wt. of tar taken.

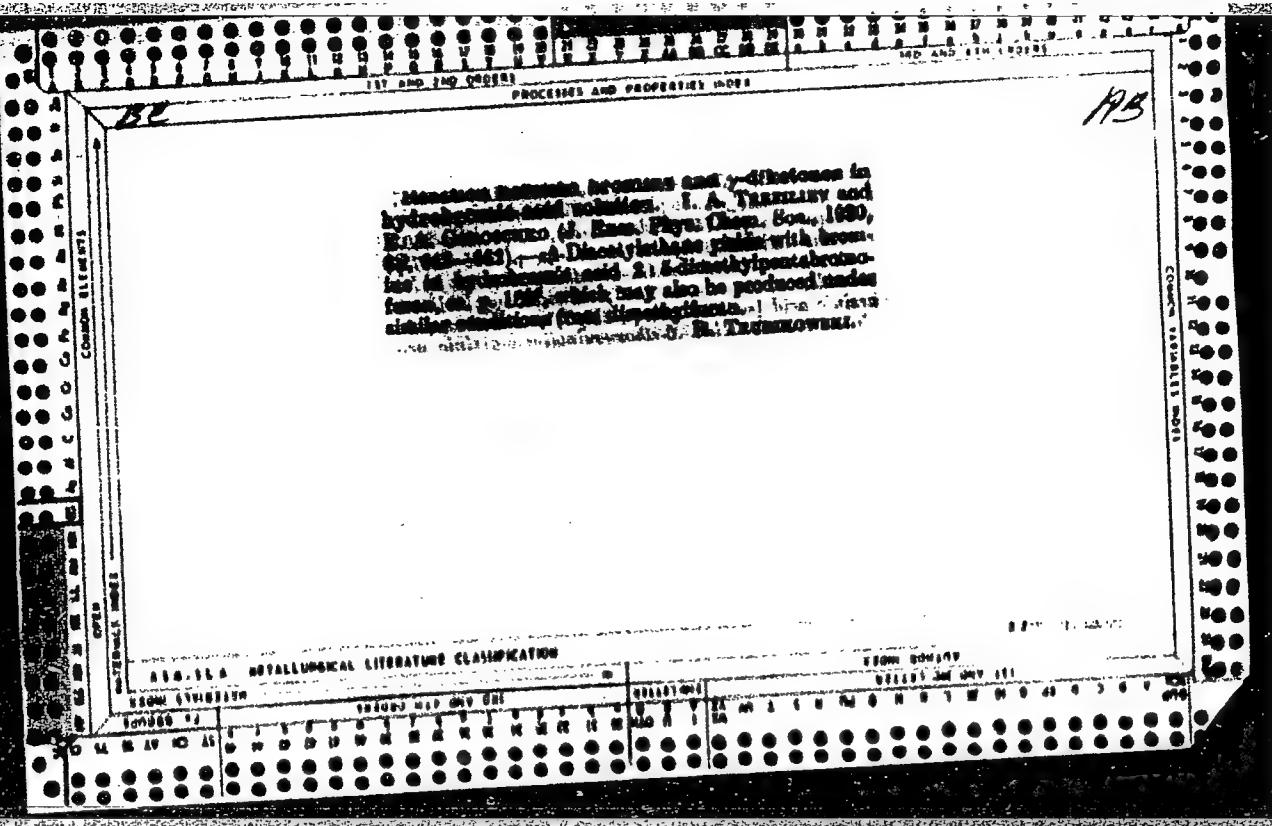
R.T.

ASH-ISA METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: 03/20/2001

CIA-RDP86-00513R001756520003-2"





Hydrogenation of Manure-ash (*Nicotiana rustica* tobacco) dust and resin. I. A. TSYRANOV, R. L. FRATKIN, and K. A. BUCHERAN (Sborn. Rabot Chirn. Otdela, 1935, 125-146).—When hydrogenated in presence of various catalysts ( $Fe_2O_3$ ,  $MoO_3$ ), *N. rustica*, its scrap, or its resin yields highly toxic liquid products, the optimum conditions for obtaining them being given. When the products thus obtained from the resin are fractionally distilled, the content of aromatic and naphthenic hydrocarbons in the fractions increases, and that of olefins and paraffins decreases, as distillation proceeds.

T. H. P.

B-II-2

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## ASME-SEA METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: 03/20/2001

CIA-RDP86-00513R001756520003-2"

Thermal calculations for determining the reactivity of carbon monoxide. I. A. TRIPURAY and S. A. KROKOS (Gorai Bhar., 1920, 13, No. 10-11, 11-17). The "thermal difference" (heat of combustion - sum of heat effects of components)  $\times 100/\text{sum of heat effects of components}$ , is:  $\text{C}_2\text{H}_2$  -7.07% ( $-25.18 \text{ kg.-cal.}$ ),  $\text{C}_2\text{H}_4$  +4.73% ( $+15.40 \text{ kg.-cal.}$ ),  $\text{C}_2\text{H}_6$  +19.53% ( $+50.85 \text{ kg.-cal.}$ ),  $\text{CO}$  +10.66%. It is shown that the expected similarity in the reactivities of  $\text{C}_2\text{H}_2$  and  $\text{CO}$  exists. On raising the temp. of distillation of hard coal the  $\text{CO}$  content of the gases decreases. When cellulose is heated with  $\text{CO}$ , at 20 atm. the pressure progressively decreases, the cellulose becoming extensively oxidised.

Oct. 1883.

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CIA-RDP86-00513R001756520003-2"

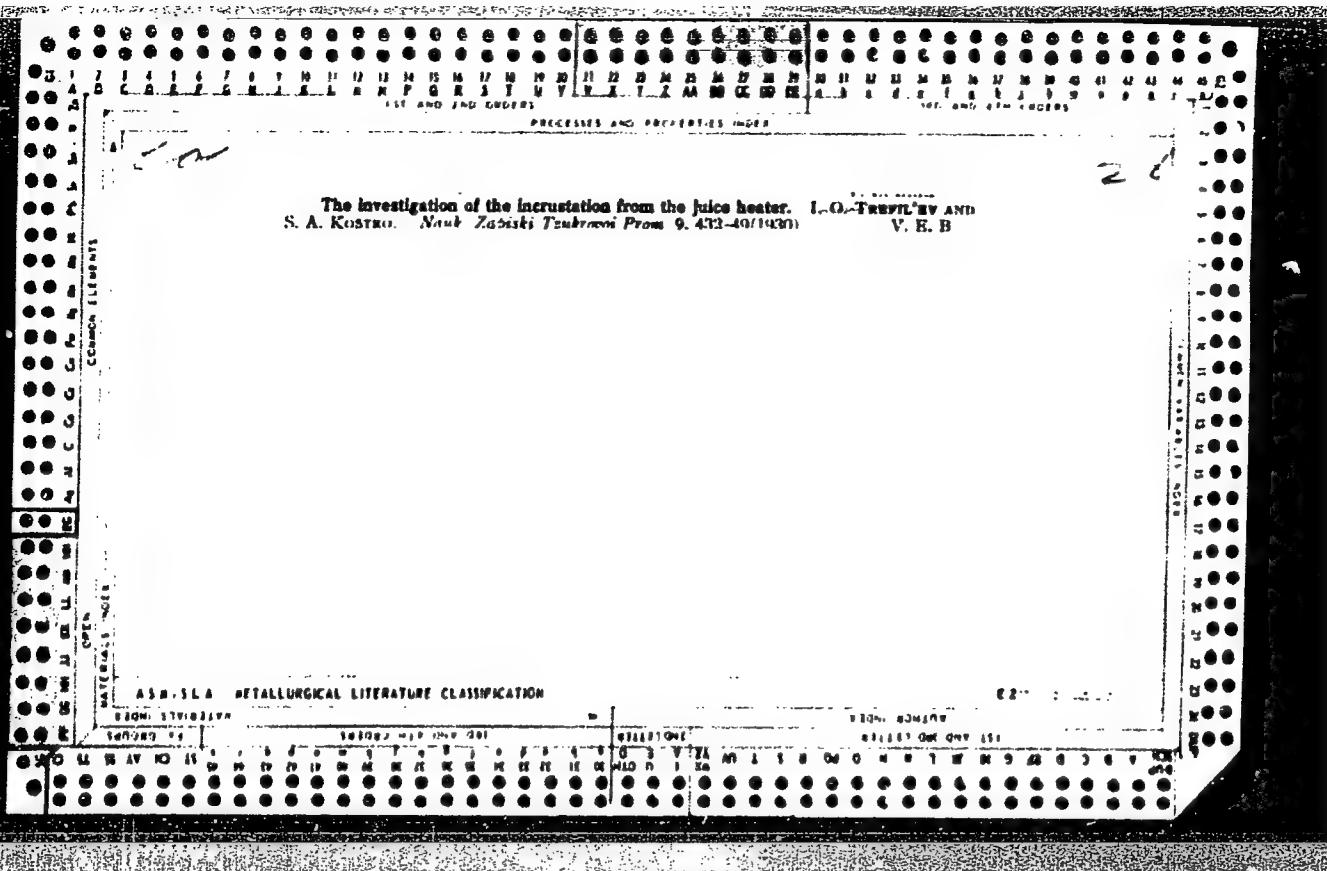
Hydrogenation of Ukrainian soft coal. I. A. Trefilat...  
and B. A. Kostets. *Gornyi Zhez. 1932*, No. 6, 13-20;  
*Chem. Zvest. 1932*, 11, 3981; cf. *C. A.* 26, 4234. -- The  
greatest decrease of the H<sub>2</sub> pressure in the hydrogenation

of Ukrainian soft coal was observed between 390° and  
420°. The yield of benzene was 20%, that of liquid  
lubricating oil 40-50% of the coal. Optimum conditions  
for hydrogenation are a high beginning pressure (up to  
100 atm.) and a temp. of 420°. M. G. Moore

Trefiliev, I. A.

"Reaction de condensation de l'acide succinique avec l'acetyl-acetone." by  
Z. F. Stephanovskaja, V. V. Dorofejev and I. A. Trefiliev. (p 518)

SO: Journal of General Chemistry (Zhurnal Obshchei Khimii) 1941, Vol 11, No. 7



AMERICAN, U. S.

"Derives du type oxonium de la serie furanique." by Trefiljev, J. A. and Lifanov, E. N.  
(p 182)

SO: Journal of General Chemistry (Zhurnal Osnovnoi Khimii) 1941, vol 11, no 1.

TREFIMOVA, I. V.

USSR/Chemistry - Catalysts Jan 52

"The Structure of the Surface of Disperse Iron," N. A. Shurmovskaya, B. P. Bruns,  
I. V. Trefimova

"Zhur Fiz Khim" Vol XXVI, No 1, pp 48-55

Developed method for obtaining water vapor-gas mixts, which permits variation of ratio of components within very wide limits, even when the concn of water vapor is low. Dtd adsorption of oxygen from  $H_2O - H_2$  by disperse iron contg 2% of  $Al_2O_3$  as promoter with ratios of water vapor to hydrogen from 0.0006 to 0.018. Isotherms of adsorption indicate presence of 2 types of areas on surface having limiting capacities of 0.224 mg/g Fe and 1.868 mg/g Fe and heats of interaction with water vapor of 10,100 cal/mol  $H_2O$  and 4,300 cal/mol  $H_2O$ .

PA 211T41

ROKYTOVA, K.; TREFNA, B.

Use of a vestibular screen for rehabilitation of nasal breathing  
in children. Cesk.otolar. 9 no.5:293-298 0'60.

1. Vyzkumny ustav stomatologicky v Praze, reditel doc. MUDr.  
Jarmil Kostlan. Katedra detske otorinolaryngologie fakulty  
detskeho lekarstvi University Karlovy v Praze, prednosta doc.  
MUDr. J. Chvojka.

(ADENOIDS surgery)  
(RESPIRATION in inf. & child)

FLOS, J.; TREKVA, Bo

Chemical injury of the oesophagus. Czech. Otolaryng. 14 no. 5:  
296-300 01/65

1. Katedra detsko otolaryngologicke fakulty lekarstvnu  
Univerzity v Praze (vedouci - doc. dr. J. Flos, CSc.)

TREFNA E  
ROUSAROVA, J.; TREFNA, E. (HMU); ZNAMENACK, K.

The care of and the falling off of the umbilical stump. Cesk. pediat.  
13 no. 4:338-344 5 May 58.

1. Ustav pro pediatrie matku a dite v Praze-Podoli reditel prof. Dr. J. Trapl,  
vedouci pediatrickeho sektoru prof. Dr. K. Kubat J. R., Praha-Podoli,  
nab. E. Marxe 157.

(UMBILICAL CORD  
umbilical stump, healing time (Gz))

"APPROVED FOR RELEASE: 03/20/2001

CIA-RDP86-00513R001756520003-2

APPROVED FOR RELEASE: 03/20/2001

CIA-RDP86-00513R001756520003-2"

TREFNA, E.

SURNAME (in caps); Given Names

Country: Czechoslovakia

(4)

Academic Degrees: /not given, except for Popolansky/

Affiliation:

Source: Prague, Meteorologicka Zpravy, Vol XIV, No 1-2, 30 April  
1961, pp 8-13

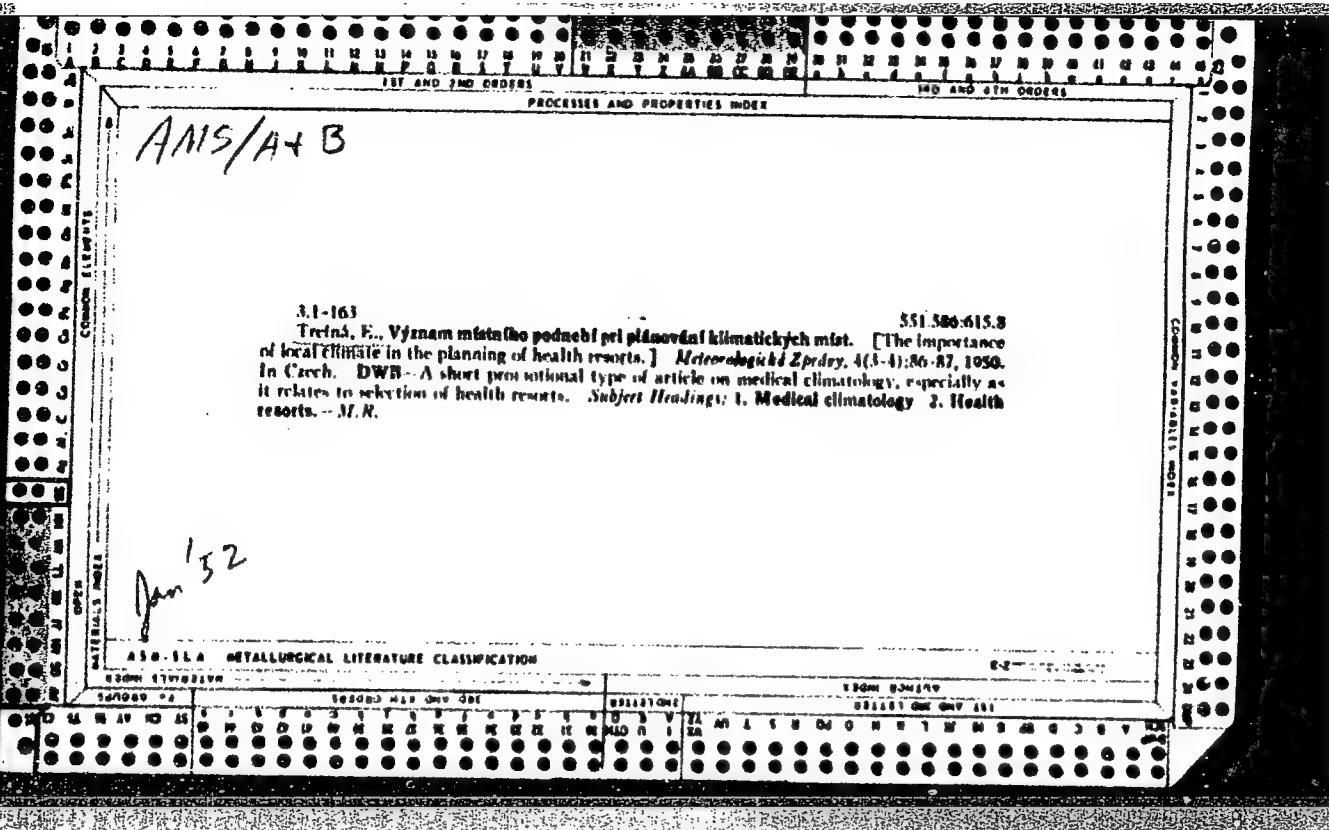
Data: "The Frequency of Thunderstorms and Their Duration  
on the Territory of the Czechoslovak Socialist Republic."

Authors:

STUCHLIK, F, Hydrometeorological Institute (Hydrometeorologicky ustav), Prague  
POPOLANSKY, F, C Sc, Energetics Research Institute (Vyzkumny ustav ener-  
geticky), Brno

TREFNA, E, Hydrometeorological Institute, Prague

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"APPROVED FOR RELEASE: 03/20/2001

CIA-RDP86-00513R001756520003-2

APPROVED FOR RELEASE: 03/20/2001

CIA-RDP86-00513R001756520003-2"

TREFNY, Dusan

SURNAME, Given Names

Country: Czechoslovakia

Academic Degrees: DVM

Affiliation: Prague

Source: Prague, Veterinarstvi, Vol<sup>11</sup>, No 9, Sept 1961; pp 343-345

Data: "Results of Two Years' Experiences of Finding Tears of Achilles' Tendon  
and of its Desinsertion in Slaughter Cattle"

TREFNY, Dusan  
KOUDELA, Karel

GPO 981643

C.A.  
1951

<sup>1/1</sup>  
Fuels and Coking  
Products

Methods of obtaining the most favorable yield of carbonaceous by-products in coking with special consideration of the equalizing collector main. Franz Trefny (Oberhausen, Ger.). *Glückauf* 87, 537-51 (1951).—A description of various coking processes and the methods used in these for controlling the yield of by-products. 38 references.

A. J. Abbott

TREFNY, Frantisek

Measurement of cervical spinal cord thickness in perimyelography with  
the myodil. Cesk. rentg. 12 no.4:243-245 Dec 58.

1. Klinicka zakladna rentgen. katedry UDL, Praha 8-Bulovka, prednosta  
prim. dr. Josef Slanina. Mr. T., primar rtg odd. Pribram, nemocnice.  
(SPINAL CORD, radiography

perimyelography with ethyl iodophenylundecylate, value  
in determ. of cervical spinal cord thickness (Cz))

(CONTRAST MEDIA

ethyl iodophenylundecylate in perimyelography (Cz))

TREFNY, Frantisek

Stenoscone, an apparatus to prevent dazzling by negatoscopes. Cesk. rentg.  
12 no. 4:272-273 Dec 58.

1..Klinicka zakladna rtg katedry Ustavu pro doskoloovani lekaru, pred-  
nosta prim. MUDr. Josef Slanina, Praha - 8, Bulovka. Fr. T., prednosta  
rtg odd. Pribram, nemocnice.

(ROENTGENOGRAPHY, appar. & instruments

stenoscope appar. in prev. of dazzling by negatoscopes  
(Gz))

KRIVINKA, R.; TREFNY, J.

Future of control of tuberculosis in Czechoslovakia. Cas. lek. česk.  
97 no.23-24:734-735 6 June 58.

1. Vyzkumný ustav tuberkulosy v Praze, reditel doc. dr. R. Krivinka.  
R. K., Praha 8-Liben, V Holešovickach 26.) J. T., Praha 8-Liben,  
Lindnerova 9.

(TUBERCULOSIS, prevention and control,  
in Czech. (Cz))

CZECHOSLOVAKIA

TKOSNY, J.

Research Institute of Tuberculosis (Výzkumný ústav  
tuberkulózy), Prague

Prague, Residence v tuberkulóze, No 6-7, 1963, IP 426-430

"Mortality in Tuberculous Subjects for the Year 1961 in  
the District of Kolin."

KRIVINKA, R. Doc. MUDr.; TREFNY, J. MUDr.

From an analysis of the epidemiological situation to concrete tasks  
of further fight against tuberculosis. Cesk. zdravot. 6 no.3:111-118  
Apr 58.

1. Vyzkumny ustav tuberkulosy v Praze.  
(TUBERCULOSIS, prev. & control  
in Czech. (Cz))

TREFNY, J.

2

CZECHOSLOVAKIA

FELKEL, H; SPOUSTA, J; TREFNY, J.

Research Institute of Tuberculosis (Vyzkumny ustav  
tuberkulozy), Prague - (for all)

Prague, Rozhledy v tuberkulose, No 2, 1963, pp 136-139

"The Problem of the Recalcitrant Tuberculosis Patient."

TREFNÝ, J; REIL, I.

Czechoslovakia

Experimental Institute of Tuberculosis in Prague --  
Prague (Výzkumný ústav tuberkulózy v Praze --  
Praha); Director: R. Křivinka, Docent Dr.

Prague, Rozhledy v tuberkulóze, No 1, 1963, pp 4-6

"Review on the Expansion of Photofluorography in  
Czechoslovakia during the Period 1954-1961."

BORISENKO, Aleksandr Ivanovich; TARAPOV, Ivan Yevgen'yevich; BLANK,  
Ya.P., prof., otv.red.; GEDMAN, V.L., prof., otv.red.;  
TRET'YAKOVA, A.N., red.; TROFIMENKO, A.S., tekhn.red.

[Vector analysis and the beginnings of the calculus of tensors]  
Vektornyi analiz i nachala tenzornogo ischisleniya. Khar'kov.  
Izd-vo Khar'kovskogo gos.univ., 1959. 237 p. (MIRA 13:8)  
(Calculus of tensors) (Vector analysis)

POGORELOV, Aleksey Vasil'yevich; BLANK, Ya.P., prof., otv.red.;  
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